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Terms used signal noise matrix decomposition

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1 [Special issue on independent components analysis: A multiscale framework for blind separation of linearly mixed signals](#)

Pavel Kisilev, Michael Zibulevsky, Yehoshua Y. Zeevi

December 2003 **The Journal of Machine Learning Research**, Volume 4**Publisher:** MIT PressFull text available: [pdf\(781.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We consider the problem of blind separation of unknown source signals or images from a given set of their linear mixtures. It was discovered recently that exploiting the sparsity of sources and their mixtures, once they are projected onto a proper space of sparse representation, improves the quality of separation. In this study we take advantage of the properties of multiscale transforms, such as wavelet packets, to decompose signals into sets of local features with various degrees of sparsity. ...

2 [Subspace based estimation of the signal to interference ratio for TDMA cellular systems](#)

Michael Andersin, Narayan B. Mandayam, Roy D. Yates

March 1998 **Wireless Networks**, Volume 4 Issue 3**Publisher:** Kluwer Academic PublishersFull text available: [pdf\(230.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Signal-to-Interference Ratio (SIR) has been highlighted in the literature to be a most efficient criterion for several methods aiming at reducing the effects of cochannel interference, e.g., diversity reception, dynamic channel allocation and power control. In this paper we address the problem of how to obtain fast and accurate measurements of this parameter in a practical context. We develop a general SIR estimation technique for narrow-band cellular systems that is based on a signal s ...

3 [Subspace methods for blind joint channel estimation and multiuser detection in CDMA systems](#)

Xiaodong Wang, H. Vincent Poor

January 2000 **Wireless Networks**, Volume 6 Issue 1**Publisher:** Kluwer Academic PublishersFull text available: [pdf\(249.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently developed subspace techniques for blind adaptive multiuser detection are briefly